

Title (en)

THREE-DIMENSIONAL BEAMFORMING IN A MOBILE COMMUNICATIONS NETWORK

Title (de)

DREIDIMENSIONALE STRAHLFORMUNG IN EINEM MOBILEN KOMMUNIKATIONSNETZ

Title (fr)

FORMATION DE FAISCEAU TRIDIMENSIONNELLE DANS UN RÉSEAU DE COMMUNICATION MOBILE

Publication

**EP 2837103 B1 20170301 (EN)**

Application

**EP 12873974 A 20120412**

Priority

CN 2012073893 W 20120412

Abstract (en)

[origin: WO2013152490A1] Radio conditions of a user equipment in a sector of a mobile communications network are detected (S1) and the user equipment is allocated (S2) to a group of several groups of user equipments based on the radio conditions of the user equipment. The several groups comprise a first group of user equipments applying user equipment-specific horizontal beamforming and sector-specific vertical beamforming, a second group of user equipments applying user equipment-specific vertical beamforming and sector-specific horizontal beamforming, and a third group of user equipments applying user equipment-specific vertical beamforming and user equipment-specific horizontal beamforming. When the user equipment acquires a signaling message including a measurement set of reference signal ports for obtaining channel state information from the user equipment, it identifies an allocation scheme of the reference signal ports in the measurement set and generates the channel state information based on the measurement set using the allocation scheme.

IPC 8 full level

**H04B 7/04** (2017.01); **H04B 7/06** (2006.01); **H04W 4/08** (2009.01); **H04W 16/28** (2009.01)

CPC (source: EP US)

**H04B 7/0617** (2013.01 - EP US); **H04W 4/08** (2013.01 - EP US); **H04W 16/28** (2013.01 - US); **H04B 7/0452** (2013.01 - EP US)

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